Part 1 — WELDING JOURNAL SUBJECT INDEX

Abrasive Wheels, Save Time and Money with the Right Abrasive Wheels — C. Karpac, K. Honaker, and T. Fogarty, 38 (May)
Airline Millions, Weld Repair Saves — M. R. Johnsen, 28 (Aug)
Aluminum Breaks Out of the Vacuum, EBW of — K. Schulze and D. E. Powers, 32 (Feb)
Aluminum Cuts Energy Costs by 99%, Friction Welding of — R. Hancock, 40 (Feb)
Aluminum Shipbuilding, New Developments in — T. Anderson, 28 (Feb)
Aluminum Space Frames Speeds Introduction of Sports Car, Robotic Welding of — C. Occhialini, 24 (Feb)
Atmospheres for Bright Brazing, Controlled — P. F. Stratton and A. McCracken, 25 (Oct)
Atomization, Manufacture of Brazed and Solder Alloy Powders by — D. Fortuna, 40 (Oct)
Automating Materials Handling — 33 (Aug)
Auto Parts Maker Goes Ductless —'36 (Sept)
Battlefield Welders, Boot Camp for — R. Hancock, 38 (Dec)
Brazed and Solder Alloy Powders by Atomization, Manufacture of — D. Fortuna, 40 (Oct)
Brazing, Controlled Atmospheres for Bright — P. F. Stratton and A. McCracken, 25 (Oct)
Brazing of Stainless Steel, Modern — S. L. Feldbauer, 30 (Oct)
Bridge Puts New Gas Mixtures to the Test, Bay — B. O'Neil and M. E. Rodgers III, 26 (Dec)
Chicago, Spend Four Profitable Days in — M. R. Johnsen, 38 (Jan)
Coke Drums, Vertical Plate Technology Extends the Life of Coke Drums — C. Stewart, 34 (Apr)
Costs by 99%, Friction Welding of Aluminum Cuts Energy — R. Hancock, 40 (Feb)
Cleveland, Fabtech Comes to — 51 (Oct)
Cutting Tips, Tips for Selecting Qxyfuel — J. Jones, 71 (Sept)
Daughters Bond through Welding, Dads and — R. Hancock, 91 (Apr)
Distortion, Understanding — D. McGowan, 76 (Sept)
Electrodes Improve GMAW Heat Input Control, Double — Y. M. Zhang, M. Jiang, and W. Lu, 39 (Nov)
Ferritic Welds, Understanding Hydrogen Failures of — J. R. Still,-26 (Jan)
Filler Metal Review, Nickel Alloy — H.W. Ebert, 60 (July)
Fires?, How Do We Prevent Hot Work — M. Blank, 26 (Sept)
Force-Guided Relays Add Extra Measure of Safety — R. Harris, 38 (Sept)
Frames Speeds Introduction of Sports Car, Robotic Welding of Aluminum Space — C. Occhialini, 24 (Feb)
Gas Mixtures to the Test, Bay Bridge Puts New — B. O'Neil and M. E. Rodgers III, 26 (Dec)
Gas Platforms, Now Made in USA: Spar Hulls for Oil and — R. Hancock, 38 (Apr)
Girls, Welding Sparks Self-Esteem for — R. Hancock, 73 (Sept)
Guns and Torches, Developments in — R. Hancock and M. R. Johnsen, 29 (May)
GMAW Heat Input Control, Double Electrodes Improve — Y. M. Zhang, M. Jiang, and W. Lu, 39 (Nov)
GMAW, How to Optimize Mild Steel— Richard Green, 30 (Dec)
Heat Treatment Is Critical to Refurbishing a Wellhead Housing, Postweld — J. R. Still and V. Blackwood, 34 (Oct)
Heat Input Control, Double Electrodes Improve GMAW — Y. M. Zhang, M. Jiang, and W. Lu, 39 (Nov)
Hermetic Sealing, Optimizing Projection Welding for — T. E. Salzer, 42 (March)
High-Purity Water Systems Rely on Orbital Welding — 39 (Aug)
Hollywood Bowl, A New Tune for the — R. Aday, 54 (July)
How Do We Prevent Hot Work Fires? — M. Blank, 26 (Sept)
Hydrogen Failures of Ferritic Welds, Understanding — J. R. Still, 26 (Jan)
Hybrid Welding?, What's Next for — R. W. Messler, Jr., 30 (March)
Hybrid Welding of Ships, Laser- — S. Herbert, 39 (June)
Insert Metal, Friction Welding Using — H. Ochi, K. Ogawa, Y. Yamamoto, and Y. Suga, 36 (March)
Ironworkers New Skills, Dinosaur Project Teaches — N. Borchert, 42 (Nov)
Job Shops, Tips for — M. R. Johnsen, 45 (June)
Life of Coke Drums, Vertical Plate Technology Extends the — C. Stewart, 34 (Apr)
Materials Handling, Automating — 33 (Aug)
Mild Steel GMAW, How to Optimize — Richard Green, 30 (Dec)
Mixtures to the Test, Bay Bridge Puts New Gas — B. O'Neil and M. E. Rodgers III, 26 (Dec)
Money with the Right Abrasive Wheels, Save Time and — C. Karpac, K. Honaker, and T. Fogarty, 38 (May)
Nickel Steel, Electrodes for Welding 9% — J. Hilkes, F. Neesen, and S. Caballero, 30 (Jan)
Nuclear Power Plant Benefits from Innovative Repair Technology — N. Chapman, 36 (Aug)
Oil and Gas Platforms, Now Made in USA: Spar Hulls — R. Hancock, 38 (Apr)
Orbital Welding, High-Purity Water Systems Rely on — 39 (Aug)
Qxyfuel Cutting Tips, Tips for Selecting — J. Jones, 71 (Sept)
Parts Maker Goes Ductless, Auto — 36 (Sept)
P91, Welding Root Beads — C. Patrick, T. Ferguson, and J. Maitlen, 38 (July)
Pipeline, Maintenance Welding on the Trans-Alaska — W. A. Bruce and A. S. Beckett, 48 (July)
Pipelines, Weld Metal Properties of Reeled — J. R. Still, 42 (July)
Plate Technology Extends the Life of Coke Drums, Vertical — C. Stewart, 34 (Apr)
Powder Metal Parts, Exploring the Weldability of — A. Kurt,

Part 1 — WELDING JOURNAL SUBJECT INDEX

Abrasive Wheels, Save Time and Money with the Right Abrasive Wheels — C. Karpac, K. Honaker, and T. Fogarty, 38 (May)
Airline Millions, Weld Repair Saves — M. R. Johnsen, 28 (Aug)
Aluminum Breaks Out of the Vacuum, EBW of — K. Schulze and D. E. Powers, 32 (Feb)
Aluminum Cuts Energy Costs by 99%, Friction Welding of — R. Hancock, 40 (Feb)
Aluminum Shipbuilding, New Developments in — T. Anderson, 28 (Feb)
Aluminum Space Frames Speeds Introduction of Sports Car, Robotic Welding of — C. Occhialini, 24 (Feb)
Atmospheres for Bright Brazing, Controlled — P. F. Stratton and A. McCracken, 25 (Oct)
Atomization, Manufacture of Brazed and Solder Alloy Powders by — D. Fortuna, 40 (Oct)
Automating Materials Handling — 33 (Aug)
Auto Parts Maker Goes Ductless —'36 (Sept)
Battlefield Welders, Boot Camp for — R. Hancock, 38 (Dec)
Brazed and Solder Alloy Powders by Atomization, Manufacture of — D. Fortuna, 40 (Oct)
Brazing, Controlled Atmospheres for Bright — P. F. Stratton and A. McCracken, 25 (Oct)
Brazing of Stainless Steel, Modern — S. L. Feldbauer, 30 (Oct)
Bridge Puts New Gas Mixtures to the Test, Bay — B. O'Neil and M. E. Rodgers III, 26 (Dec)
Chicago, Spend Four Profitable Days in — M. R. Johnsen, 38 (Jan)
Coke Drums, Vertical Plate Technology Extends the Life of Coke Drums — C. Stewart, 34 (Apr)
Costs by 99%, Friction Welding of Aluminum Cuts Energy — R. Hancock, 40 (Feb)
Cleveland, Fabtech Comes to — 51 (Oct)
Cutting Tips, Tips for Selecting Qxyfuel — J. Jones, 71 (Sept)
Daughters Bond through Welding, Dads and — R. Hancock, 91 (Apr)
Distortion, Understanding — D. McGowan, 76 (Sept)
Electrodes Improve GMAW Heat Input Control, Double — Y. M. Zhang, M. Jiang, and W. Lu, 39 (Nov)
Ferritic Welds, Understanding Hydrogen Failures of — J. R. Still,-26 (Jan)
Filler Metal Review, Nickel Alloy — H.W. Ebert, 60 (July)
Fires?, How Do We Prevent Hot Work — M. Blank, 26 (Sept)
Force-Guided Relays Add Extra Measure of Safety — R. Harris, 38 (Sept)
Frames Speeds Introduction of Sports Car, Robotic Welding of Aluminum Space — C. Occhialini, 24 (Feb)
Gas Mixtures to the Test, Bay Bridge Puts New — B. O'Neil and M. E. Rodgers III, 26 (Dec)
Gas Platforms, Now Made in USA: Spar Hulls for Oil and — R. Hancock, 38 (Apr)
Girls, Welding Sparks Self-Esteem for — R. Hancock, 73 (Sept)
Guns and Torches, Developments in — R. Hancock and M. R. Johnsen, 29 (May)
GMAW Heat Input Control, Double Electrodes Improve — Y. M. Zhang, M. Jiang, and W. Lu, 39 (Nov)
GMAW, How to Optimize Mild Steel— Richard Green, 30 (Dec)
Heat Treatment Is Critical to Refurbishing a Wellhead Housing, Postweld — J. R. Still and V. Blackwood, 34 (Oct)
Heat Input Control, Double Electrodes Improve GMAW — Y. M. Zhang, M. Jiang, and W. Lu, 39 (Nov)
Hermetic Sealing, Optimizing Projection Welding for — T. E. Salzer, 42 (March)
High-Purity Water Systems Rely on Orbital Welding — 39 (Aug)
Hollywood Bowl, A New Tune for the — R. Aday, 54 (July)
How Do We Prevent Hot Work Fires? — M. Blank, 26 (Sept)
Hydrogen Failures of Ferritic Welds, Understanding — J. R. Still, 26 (Jan)
Hybrid Welding?, What's Next for — R. W. Messler, Jr., 30 (March)
Hybrid Welding of Ships, Laser- — S. Herbert, 39 (June)
Insert Metal, Friction Welding Using — H. Ochi, K. Ogawa, Y. Yamamoto, and Y. Suga, 36 (March)
Ironworkers New Skills, Dinosaur Project Teaches — N. Borchert, 42 (Nov)
Job Shops, Tips for — M. R. Johnsen, 45 (June)
Life of Coke Drums, Vertical Plate Technology Extends the — C. Stewart, 34 (Apr)
Materials Handling, Automating — 33 (Aug)
Mild Steel GMAW, How to Optimize — Richard Green, 30 (Dec)
Mixtures to the Test, Bay Bridge Puts New Gas — B. O'Neil and M. E. Rodgers III, 26 (Dec)
Money with the Right Abrasive Wheels, Save Time and — C. Karpac, K. Honaker, and T. Fogarty, 38 (May)
Nickel Steel, Electrodes for Welding 9% — J. Hilkes, F. Neesen, and S. Caballero, 30 (Jan)
Nuclear Power Plant Benefits from Innovative Repair Technology — N. Chapman, 36 (Aug)
Oil and Gas Platforms, Now Made in USA: Spar Hulls — R. Hancock, 38 (Apr)
Orbital Welding, High-Purity Water Systems Rely on — 39 (Aug)
Qxyfuel Cutting Tips, Tips for Selecting — J. Jones, 71 (Sept)
Parts Maker Goes Ductless, Auto — 36 (Sept)
P91, Welding Root Beads — C. Patrick, T. Ferguson, and J. Maitlen, 38 (July)
Pipeline, Maintenance Welding on the Trans-Alaska — W. A. Bruce and A. S. Beckett, 48 (July)
Pipelines, Weld Metal Properties of Reeled — J. R. Still, 42 (July)
Plate Technology Extends the Life of Coke Drums, Vertical — C. Stewart, 34 (Apr)
Powder Metal Parts, Exploring the Weldability of — A. Kurt,

H. Ates, A. Durgutlu, and K. Karacif, 34 (Dec)
Power Plant Benefits From Innovative Repair Technology, Nuclear — N. Chapman, 36 (Aug)
Pressure Vessel Challenge, Vertical Welding Solves a — J. Ferrell and P. Formento, 48 (Nov)
Profitable Days in Chicago, Spend Four — M. R. Johnsen, 38 (Jan)
Projection Welding for Hermetic Sealing, Optimizing — T. E. Salzer, 42 (March)
Properties of Reeled Pipelines, Weld Metal — J. R. Still, 42 (July)
Protect Your Most Valuable Asset — Yourself — M. Schifsky, 30 (Sept)
Protection, Volunteer Welders Give Troops a Ton of — R. Hancock, 83 (Apr)
Repair Technology, Nuclear Power Plant Benefits from Innovative — N. Chapman, 36 (Aug)
Repair Saves Airline Millions, Weld — M. R. Johnsen, 28 (Aug)
Root Beads in P91, Welding — C. Patrick, T. Ferguson, and J. Maitlen, 38 (July)
Safety, Force-Guided Relays Add Extra Measure of — R. Harris, 38 (Sept)
Shipbuilding, New Developments in Aluminum — T. Anderson, 28 (Feb)
Ships, Laser-Hybrid Welding of — S. Herbert, 39 (June)
Show, A Look at the AWS Welding — A. Cullison, R. Hancock, and M. R. Johnsen, 33 (June)
Skills, Dinosaur Project Teaches Ironworkers New — N. Borchert, 42 (Nov)
Society Turns 85, The American Welding — A. Cullison, 50 (June)
Solder Alloy Powders by Atomization, Manufacture of Brazed and — D. Fortuna, 40 (Oct)
Spar Hulls for Oil and Gas Platforms, Now Made in USA: — R. Hancock, 38 (Apr)
Sports Car, Robotic Welding of Aluminum Space Frames Speeds Introduction of — C. Occhialini, 24 (Feb)
Stainless Steel, Modern Brazing of — S. L. Feldbauer, 30 (Oct)
Strongest Linepipe in Arctic Conditions, Welding the World's — R. Hancock, 58 (July)
Success, Dressed for — R. Hancock, 29 (Apr)
Thermoplastics, Welding of — D. Ziegler, 45 (Oct)
Tips for Selecting Qxyfuel Cutting Tips — J. Jones, 71 (Sept)
Titanium Specification Revised, Update: — J. A. McMaster and R. C. Sutherlin, 43 (May)
Toolbox?, What's in Your — A. Cullison, R. Hancock, and M. R. Johnsen, 34 (May)
Torches, Developments in Guns and — R. Hancock and M. R. Johnsen, 29 (May)
Trans-Alaska Pipeline, Maintenance Welding on the — W. A. Bruce and A. S. Beckett, 48 (July)
Troops a Ton of Protection, Volunteer Welders Give — R. Hancock, 83 (April)
Understanding Distortion — D. McGowan, 76 (Sept)
Usability, Upgrade Your Web Site's — 41 (Dec)
Vacuum, EBW of Aluminum Breaks Out of the — K. Schulze and D. E. Powers, 32 (Feb)
Web Site's Usability, Upgrade Your — 41 (Dec)
Weldability of Powder Metal Parts, Exploring the — A. Kurt, H. Ates, A. Durgutlu, and K. Karacif, 34 (Dec)
Welders Give Troops a Ton of Protection, Volunteer — R. Hancock, 83 (Apr)
Welding, Dads and Daughters Bond through — R. Hanock, 91 (Apr)
Welding 9% Nickel Steel, Electrodes for — J. Hilkes, F. Neesen, and S. Caballero, 30 (Jan)
Weld Repair Saves Airline Millions — M. R. Johnsen, 28 (Aug)
Welding Show, A Look at the AWS — A. Cullison, R. Hancock, and M. R. Johnsen, 33 (June)
Welding Society Turns 85, The American — A. Cullison, 50 (June)
Welding Solves a Pressure Vessel Challenge, Vertical — J. Ferrell and P. Formento, 48 (Nov)
Welding Sparks Self-Esteem for Girls — R. Hancock, 73 (Sept)
Welding Using Insert Metal, Friction — H. Ochi, K. Ogawa, Y. Yamamoto, and Y. Suga, 36 (March)
Welding?, What's Next for Hybrid — R. W. Messler, Jr., 30 (March)
Wellhead Housing, Postweld Heat Treatment Is Critical to Refurbishing a — J. R. Still and V. Blackwood, 34 (Oct)
Wheels, Save Time and Money with the Right Abrasive — C. Karpac, K. Honaker, and T. Fogarty, 38 (May)
Workplace Safety: The Human Factor — M. Pankratz and D. Dorn, 32 (Sept)
World Now, They're in the Real — M. R. Johnsen, 87 (Apr)
World Trade Center Site, Construction Begins at the — B. Sommer, 36 (Nov)

AUTHORS FOR FEATURE ARTICLES

Aday, R. — A New Tune for the Hollywood Bowl, 54 (July)
Anderson, T. — New Developments in Aluminum Shipbuilding, 28 (Feb)
Ates, H., Durgutlu, A., Karacif, K., and Kurt, A. — Exploring the Weldability of Powder Metal Parts, 34 (Dec)
Beckett, A. S., and Bruce, W. A. — Maintenance Welding on the Trans-Alaska Pipeline, 48 (July)
Blackwood, V., and Still, J. R. — Postweld Heat Treatment Is Critical to Refurbishing a Wellhead Housing, 34 (Oct)
Blank, M. — How Do We Prevent Hot Work Fires?, 26, (Sept)
Borchert, N. — Dinosaur Project Teaches Ironworkers New Skills, 42 (Nov)
Bruce, W. A., and Beckett, A. S. — Maintenance Welding on the Trans-Alaska Pipeline, 48 (July)
Chapman, N. — Nuclear Power Plant Benefits from Innovative Repair Technology, 36 (Aug)
Cullison, A. — The American Welding Society Turns 85, 50 (June)
Cullison, A., Hancock, R., and Johnsen, M. R. — What's in Your Toolbox?, 34 (May)
Cullison, A., Hancock, R., and Johnsen, M. R. — A Look at the AWS Welding Show, 33 (June)
Caballero, S., Hilkes, J., and Neesen, F. — Electrodes for Welding 9% Nickel Steel, 30 (Jan)
Dorn, D., and Pankratz, M. — Workplace Safety: The Human Factor, 32 (Sept)
Durgutlu, A., Karacif, K., Kurt, A., and Ates, H. — Exploring the Weldability of Powder Metal Parts, 34 (Dec)
Ebert, H. W. — Nickel Alloy Filler Metal Review, 60 (July)
Ferguson, T., Maitlen, J., and Patrick, C. — Welding Root Beads in P91, 38 (July)
Feldbauer, S. L. — Modern Brazing of Stainless Steel, 30 (Oct)
Ferrell, J., and Formento, P. — Vertical Welding Solves a Pressure Vessel Challenge, 48 (Nov)
Fogarty, T., Karpac, C., and Honaker, K. — Save Time and Money with the Right Abrasive Wheels, 38 (May)
Formento, P., and Ferrell, J. — Vertical Welding Solves a Pressure Vessel Challenge, 48 (Nov)
Fortuna, D. — Manufacture of Brazed and Solder Alloy Powders by Atomization, 40 (Oct)
Green, R. — How to Optimize Mild Steel GMAW, 30 (Dec)
Hancock, R., Johnsen, M. R., and Cullison, A. — A Look at the AWS Welding Show, 33 (June)
Hancock, R. — Dads and Daughters Bond through Welding, 91 (Apr)
Hancock, R., and Johnsen, M. R. — Developments in Guns and Torches, 29 (May)
Hancock, R. — Dressed for Success, 29 (Apr)
Hancock, R. — Friction Welding of Aluminum Cuts Energy Costs by 99%, 40 (Feb)
Hancock, R. — Now Made in USA: Spar Hulls for Oil and Gas Platforms, 38 (Apr)
Hancock, R. — Volunteer Welders Give Troops a Ton of Protection, 83 (Apr)
Hancock, R. — Welding Sparks Self-Esteem for Girls, 73 (Sept)
Hancock, R., Johnsen, M. R. and Cullison, A. — What's in Your Toolbox?, 34 (May)
Hancock, R. — Boot Camp for Battlefield Welders, 38 (Dec)
Harris, R. — Force-Guided Relays Add Extra Measure of Safety, 38 (Sept)
Herbert, S. — Laser-Hybrid Welding of Ships, 39 (June)
Hilkes, J., Neesen, F., and Caballero, S. — Electrodes for Welding 9% Nickel Steel, 30 (Jan)
Honaker, K., Fogarty, T., and Karpac, C. — Save Time and Money with the Right Abrasive Wheels, 38 (May)
Jiang, M., Zhang, Y. M., and Lu, W. — Double Electrodes Improve GMAW Heat Input Control, 39 (Nov)
Johnsen, M. R., Cullison, A., and Hancock, R. — A Look at the AWS Welding Show, 33 (June)
Johnsen, M. R., and Hancock, R. — Developments in Guns and Torches, 29 (May)
Johnsen, M. R., Hancock, R., and Cullison, A. — What's in Your Toolbox?, 34 (May)
Johnsen, M. R. — Spend Four Profitable Days in Chicago, 38 (Jan)
Johnsen, M. R. — They're in the Real World Now, 87 (Apr)
Johnsen, M. R. — Weld Repair Saves Airline Millions, 28 (Aug)
Johnsen, M. R. — Tips for Job Shops, 45 (June)
Jones, J. — Tips for Selecting Qxyfuel Cutting Tips, 71 (Sept)
Karacif, K., Kurt, A., Ates, H., and Durgutlu, A. — Exploring the Weldability of Powder Metal Parts, 34 (Dec)
Karpac, C., Honaker, K., and Fogarty, T. — Save Time and Money with the Right Abrasive Wheels, 38 (May)
Kurt, A., Ates, H., Durgutlu, A., and Karacif, K. — Exploring the Weldability of Powder Metal Parts, 34 (Dec)
Kvaale, P. E., Van Der Eijk, C., Akselsen, O.M., and Rorvik, G. — Microstructure-Property Relationships in HAZ of New 13% Cr Martensitic Stainless Steels, 160-S (May)
Lu, W., Zhang, Y. M., and Jiang, M. — Double Electrodes Improve GMAW Heat Input Control, 39 (Nov)
Maitlen, J., Patrick, C., and Ferguson, T. — Welding Root Beads in P91, 38 (July)
McCracken, A., and Stratton, P. F. — Controlled Atmospheres for Bright Brazing, 25 (Oct)
McGowan, D. — Understanding Distortion, 76 (Sept)
McMaster, J. A., and Sutherlin, R.C. — Update: Titamium Specification Revised, 43 (May)
Messler, Jr., R. W. — What's Next for Hybrid Welding?, 30 (March)
Neesen, F., Caballero, S., and Hilkes, J. — Electrodes for Welding 9% Nickel Steel, 30 (Jan)
Occhialini, C. — Robotic Welding of Aluminum Space Frames Speeds Introduction of Sports Car, 24 (Feb)
Ochi, H., Ogawa, K., Yamamoto, Y., and Suga, Y. — Friction Welding Using Insert Metal, 36 (March)
Ogawa, K., Yamamoto, Y., Suga, Y., and Ochi, H. — Friction Welding Using Insert Metal, 36 (March)
O'Neil, B., and Rodgers III, M. E. — Bay Bridge Puts New Gas Mixtures to the Test, 26 (Dec)
Powers, D. E., and Schulze, K. — EBW of Aluminum Breaks Out of the Vacuum, 32 (Feb)
Pankratz, M., and Dorn, D. — Workplace Safety: The Human Factor, 32 (Sept)
Patrick, C., Ferguson, T., and Maitlen, J. — Welding Root Beads in P91, 38 (July)
Rodgers III, M. E., and O'Neil, B. — Bay Bridge Puts New Gas Mixtures to the Test, 26 (Dec)
Salzer, T. E. — Optimizing Projection Welding for Hermetic

Sealing, 42 (March)
Schifsky, M. — Protect Your Most Valuable Asset — Yourself, 30 (Sept)
Schulze, K. and Powers, D. E. — EBW of Aluminum Breaks Out of the Vacuum, 32 (Feb)
Sommer, B. — Construction Begins at the World Trade Center Site, 36 (Nov)
Stewart, C. — Vertical Plate Technology Extends the Life of Coke Drums, 34 (Apr)
Still, J. R. — Understanding Hydrogen Failures of Ferritic Welds, 26 (Jan)
Still, J. R. — Weld Metal Properties of Reeled Pipelines, 42 (July)
Still, J. R., and Blackwood, V. — Postweld Heat Treatment Is Critical to Refurbishing a Wellhead Housing, 34 (Oct)
Stratton, P. F., and McCracken, A. — Controlled Atmospheres for Bright Brazing, 25 (Oct)
Suga, Y., Ochi, H., Ogawa, K., and Yamamoto, Y. — Friction Welding Using Insert Metal, 36 (March)
Sutherlin, R. C., and McMaster, J. A. — Update: Titanium Specification Revised, 43 (May)
Yamamoto, Y., Suga, Y., Ochi, H., and Ogawa, K. — Friction Welding Using Insert Metal, 36 (March)
Ziegler, D. — Welding of Thermoplastics, 45 (Oct)
Zhang,Y. M., Jiang, M., and Lu, W. — Double Electrodes Improve GMAW Heat Input Control, 39 (Nov)

Part 2 — RESEARCH SUPPLEMENT SUBJECT INDEX

Al-Cu Welds, Liquation Cracking in Full-Penetration — C. Huang and S. Kou, 50-S (Feb)
Aluminum Alloys, 'Kissing Bond' Phenomena in Solid-State Welds of — A. Oosterkamp, L. Djapic Oosterkamp, and A. Nordeide, 225-S (Aug)
Aluminum Alloy to Steel with Transition Material — From Process to Performance — Part I: Experimental Study, Resistance Spot Welding of — X. Sun, E.V. Stephens, M. A. Khaleel, H. Sao, and M. Kimchi, 188-S (June)
Aluminum Alloy to Steel with Transition Material — Part II: Finite Element Analyses of Nugget Growth, Resistance Spot Welding of — X. Sun and M. A. Khaleel, 197-S (July)
Aluminum Alloy 5052 and Low-Carbon Steel by Laser Roll Welding, Joining of — M. J. Rathod and M. Kutsuna, 16-S (Jan)
Aluminum Alloy Subjected to an External Electrostatic Field, Metallurgical Characterization of a Friction Welded — L. Fu and S. G. Du, 232-S (Aug)
Aluminum Alloy to Steel, Friction Stir Welding of — K. Kimapong and T. Watanabe, 277-S (Oct)
Aluminum Brazed Joints, Prediction of the Fillet Mass and Topology of — D. P. Sekulic, F. Gao, H. Zhao, B. Zellmer, and Y. Y. Qian, 102-S (March)
Aluminum Resistance Spot Welds, Effects of Fusion Zone Size on Failure Modes and Static Strength of — X. Sun, E. V. Stephens, R. W. Davies, M. A. Khaleel, and D. J. Spinella, 308-S (Nov)
Austenitic Alloys for Spent Nuclear Fuel Applicatons — Part I: Stainless Steel Alloys, Physical and Welding Metallurgy of Gd-Enriched — J. N. DuPont, C. V. Robino, J. R. Michael, R. E. Mizia, and D. B. Williams, 289-S (Nov)
Austenitic Alloys for Spent Nuclear Fuel Applications — Part II: Nickel-based Alloys, Physical and Welding Metallurgy of Gd-enriched — J. N. DuPont, C. V. Robino, J. R. Michael, R. E. Mizia, and D. B. Williams, 319-S (Dec)
Bead Geometry, The Influence of Various Hybrid Welding Parameters on — M. El Rayes, C. Walz, and G. Sepold, 147-S (May)
Beam Measurement for Spot Welding Lasers, Development and Evaluation of an In-Situ Beam Measurement for Spot Welding Lasers — P. W. Fuerschbach, J. T. Norris, R. C. Dykhuizen, and A. R. Mahoney, 154-S (May)
Brazed Joints, Prediction of the Fillet Mass and Topology of Aluminum — D. P. Sekulic, F. Gao, H. Zhao, B. Zellmer, and Y. Y. Qian, 102-S (March)
Brazing Technology for Manufacture of Titanium Honeycomb Structures — A Statstical Study, Activated Diffusion — X. Huang and N. L. Richards, 73-S (March)
Boundary Character in Alloy 690 and Ductility-Dip Cracking Susceptibility, Grain — V. R. Dave, M. J. Cola, M. Kumar, A. J. Schwartz, and G. N. A. Hussen, 1-S (Jan)
Brazed Joints — Part 1, Flaw Tolerance in Lap Shear — Y. Flom amd L. Wang, 32-S (Jan)
Charpy Toughness, Optimization of Shielded Metal Arc Weld Metal Composition for — M. Murugananth, S. S. Babu, and S. A. David, 267-S (Oct)
Clad Steel Plate, Single-Pass Laser Beam Welding of — S. Missori, F. Murdolo, and A. Sili, 65-S (Feb)
Cored Arc Weld Metal Deposits, The Effect of Welding Procedure on ANSI/AWS A5.29-98 E81T1-Ni1 Flux — H. G. Svoboda, N. M. Ramini De Rissone, L. A. De Veida, and E. S. Surian, 301-S (Nov)
Crack Propagation Behavior of Stainless Steel Welds, The Influence of Microstructure on Fatigue — C. S. Kusko, J. N. DuPont, and A. R. Marder, 6-S (Jan)
Crack Propagation Behavior of Stainless Steel Welds, Influence of Stress Ratio on Fatigue — C. S. Kusko, J. N. DuPont, and A. R. Marder, 59-S (Feb)
Cracking in Full-Penetration Al-Cu Welds, Liquation — C. Huang and S. Kou, 50-S (Feb)
Cracking in Full-Penetration Al-Mg-Si Welds, Liquation — C. Huang and S. Kou, 111-S (Apr)
Cracking in Nickel-Based Weld Meals — Part III, An Investigation of Ductility-Dip — M. G. Collins, A. J. Ramirez, and J. C. Lippold, 39-S (Feb)
Cracking Susceptibility, Grain Boundary Character in Alloy

690 and Ductility-Dip — V. R. Dave, M. J. Cola, M. Kumar, A. J. Schwartz, and G. N. A. Hussen, 1-S (Jan)
Deformation and Fracture of Weld-Bonded Joints, Cohesive-Zone Modeling of the — M. N. Cavalli, M. D. Thouless, and Q. D. Yang, 133-S (Apr)
Deformation of a Completely Penetrated GTA Weld, Numerical Simulation of Transient 3-D Surface — C. S. Wu, P. C. Zhao, and Y. M. Zhang, 330-S (Dec)
Direct Observations of Ausentite, Bainite, and Martensite Formation during Arc Welding of 1045 Steel Using Time-Resolved X-ray Diffraction — J. W. Elmer, T. A. Palmer, S. S. Babu, W. Zhang, and T. DebRoy, 244-S (Sept)
Distortion Analysis for Fillet Welded Thin-Plate T-joints, Plasticity-Based — G. H. Jung and C. L. Tsai, 177-S (June)
Distortion Control Plans on Angular Distortion in Fillet Welded T-Joints — G. H. Jung and C. L. Tsai, 213-S (July)
Ductility-Dip Cracking in Nickel-Based Weld Metals — Part III, An Investigation of — M. G. Collins, A. J. Ramirez, and J. C. Lippold, 39-S (Feb)
Ellipsodial Heat Source in Finite Thick Plate, Analytical Approximate Solution for Double — N. T. Nguyen, Y. -W. Mai, S. Simpson, and A. Ohta, 82-S (March)
Failure Modes and Static Strength of Aluminum Resistance Spot Welds, Effects of Fusion Zone Size on — X. Sun, E. V. Stephens, R. W. Davies, M. A. Khaleel, and D. J. Spinella, 308-S (Nov)
Filler Metals, The Kinetics of Nitrogen Absorption by Arc-Melted Fe-C-Mn-Type Filler Metals — A. Gruszczyk, 94-S (March)
Fillet Mass and Topology of Aluminum Brazed Joints, Prediction of the — D. P. Sekulic, F. Gao, H. Zhao, B. Zellmer, and Y. Y. Qian, 102-S (March)
Fillet Welded Thin-Plate T-joints, Plasticity-Based Distortion Analysis for — G. H. Jung and C. L. Tsai, 177-S (June)
Fillet Welded T-Joints, Fundamental Studies on the Effect of Distortion Control Plans on Angular Distortion in — G. H. Jung and C. L. Tsai, 213-S (July)
Finite Element Analyses of Nugget Growth, Resistance Spot Welding of Aluminum Alloy to Steel with Transition Material — X. Sun and M. A. Khaleel, 197-S (July)
Flux Cored Arc Weld Metal Deposits, The Effect of Welding Procedure on ANSI/AWS A5.29-98 E81T1-Ni1 — H. G. Svoboda, N. M. Ramini De Rissone, L. A. De Veida, and E. S. Surian, 301-S (Nov)
Fracture of Weld-Bonded Joints, Cohesive-Zone Modeling of the Deformation and — M. N. Cavalli, M. D. Thouless, and Q. D. Yang, 133-S (April)
Friction Welded Aluminum Alloy Subjected to an External Electrostatic Field, Metallurgical Characterization of a — L. Fu and S. G. Du, 232-S (Aug)
Full-Penetration Al-Mg-Si-Welds, Liquation Cracking in — C. Huang and S. Kou, 111-S (April)
Fusion Zone Size on Failure Modes and Static Strength of Aluminum Resistance Spot Welds, Effects of — X. Sun, E. V. Stephens, R. W. Davies, M. A. Khaleel, and D. J. Spinella, 308-S (Nov)
Gases in GTA Welding of a Wrought AZ80 Magnesium Alloy, An Investigation on the Effects of — M. Marya, G. R. Edwards, and S. Liu, 203-S (July)
GMA Weld Pool with Free Surface, Three Dimensional Simulation of Transient — Z. Cao, Z. Yang, and X. L. Chen, 169-S (June)
GTA Welding of a Wrought AZ80 Magnesium Alloy, An Investigation on the Effects of Gases in — M. Marya, G. R. Edwards, and S. Liu, 203-S (July)
GTA Weld, Numerical Simulation of Transient 3-D Surface Deformation of a Completely Penetrated — C. S. Wu, P. C. Zhao, and Y. M. Zhang, 330-S (Dec)
HAZ of New 13% Cr Martensitic Stainless Steels, Microstructure-Property Relationships in — O. M. Askelsen, G. Rorvik, P. E. Kvaale, and C. Van Der Eijk, 160-S (May)
Heat Source in Finite Thick Plate, Analytical Approximate Solution for Double Ellipsodial — N. T. Nguyen, Y. -W. Mai, S. Simpson, and A. Ohta, 82-S (March)
High-Frequency Electric Resistance Welding, Penetrator Formation Mechanisms during — J. -H. Choi, Y. S. Chang, C. -M. Kim, J.-S. Oh, and Y. -S. Kim, 27-S (Jan)
Honeycomb Structures — A Statistical, Activated Diffusion Brazing Technology for Manufacture of Titanium — X. Huang and N. L. Richards, 73-S (March)
HSLA Steel Welds, Yttrium Hydrogen Trapping to Manage Hydrogen in — C. A. Lensing, Y. D. Park, I. S. Maroeff, and D. L. Olson, 254-S (Sept)
Hybrid Welding Parameters on Bead Geometry, The Influence of Various — M. El Rayes, C. Walz, and G. Sepold, 147-S (May)
Hydrogen in HSLA Steel Welds, Yttrium Hydrogen Trapping to Manage — C. A. Lensing, Y. D. Park, I. S. Maroeff, and D. L. Olson, 254-S (Sept)
Kinetics of Nitrogen Absorption by Arc-Melted Fe-C-Mn-Type Filler Metals, The — A. Gruszczyk, 94-S (March)
'Kissing Bond' Phenomena in Solid-State Welds of Aluminum Alloys — A. Oosterkamp, L. Djapic Oosterkamp, and A. Nordeide, 225-S (Aug)
Lance, Flame-Focusing Modification of a Wire-Core Thermal — H. Wang, P. Pranda, and V. Hlavacek, 283-S (Oct)
Laser Beam Welding of Clad Steel Plate, Single-Pass — S. Missori, F. Murdolo, and A. Sili, 65-S (Feb)
Lasers, Development and Evaluation of an In-Situ Beam Measurement for Spot Welding — P. W. Fuerschbach, J. T. Norris, R.C. Dykhuizen, and A. R. Mahoney, 154-S (May)
Laser Roll Welding, Joining of Aluminum Alloy 5052 and Low-Carbon Steel by — M. J. Rathod and M. Kutsuna, 16-S (Jan)
Low-Carbon Steel by Laser Roll Welding, Joining of Aluminum Alloy 5052 and — M. J. Rathod and M. Kutsuna, 16-S (Jan)
Magnesium Alloy, An Investigation on the Effects of Gases in GTA Welding of Wrought AZ80 — M. Marya, G. R. Edwards, and S. Liu, 203-S (July)
Martensitic Stainless Steels, Microstructure-Property Relationships in HAZ of New 13% Cr — O. M. Askelsen, G. Rorvik, P. E. Kvaale, and C. Van Der Eijk, 160-S (May)
Mechanisms during High-Frequency Electric Resistance Welding, Penetrator Formation — J. -H. Choi, Y. S. Chang, C. -M. Kim, J. -S. Oh, and Y. -S. Kim, 27-S (Jan)
Metallurgical Characterization of a Friction Welded Aluminum Alloy Subjected to an External Electrostatic Field — L. Fu and S. G. Du, 232-S (Aug)
Metallurgy of Gd-Enriched Austenitic Alloys for Spent Nuclear Fuel Applicatons — Part I: Stainless Steel Alloys, Physical and Welding — J. N. DuPont, C. V. Robino, J. R. Michael, R. E. Mizia, and D. B. Williams, 289-S (Nov)
Metallurgy of Gd-enriched Austenitic Alloys for Spent

Nuclear Fuel Applications — Part II: Nickel-based Alloys, Physical and Welding — J. N. DuPont, C. V. Robino, J. R. Michael, R. E. Mizia, and D. B. Williams, 319-S (Dec)
Microstructure and Property Calculations, Reliability of Weld — H. K. D. H. Bhadeshia, 237-S (Sept)
Modeling of the Deformation and Fracture of Weld-Bonded Joints, Cohesive-Zone — M. N. Cavalli, M. D. Thouless, and Q.D. Yang, 133-S (Apr)
Modeling of Ultrasonic Welding, Mechanical — C. Doumanidis and Y. Gao, 140-S (Apr)
Monitoring in Short-Circuit GMAW, Signature Analysis for Quality — Y. X. Chu, S. J. Hu, W. K. Hou, P. C. Wang, and S. P. Marin, 336-S (Dec)
Microstructure on Fatigue Crack Propagation Behavior of Stainless Steel Welds, The Influence of — C. S. Kusko, J. N. DuPont, and A. R. Marder, 6-S (Jan)
Nickel-Based Weld Metals — Part III, An Investigation of Ductility-Dip Cracking in — M. G. Collins, A. J. Ramirez, and J. C Lippold, 39-S (Feb)
Nickel-based Alloys, Physical and Welding Metallurgy of Gd-enriched Austenitic Alloys for Spent Nuclear Fuel Applications — Part II: — J. N. DuPont, C. V. Robino, J. R. Michael, R. E. Mizia, and D. B. Williams, XX (Dec)
Nitrogen Absorption by Arc-Melted Fe-C-Mn-Type Filler Metals, The Kinetics of — A. Gruszczyk, 94-S (Mar)
Nuclear Fuel Applicatons — Part I: Stainless Steel Alloys, Physical and Welding Metallurgy of Gd-enriched Austenitic Alloys for Spent — J. N. DuPont, C. V. Robino, J. R. Michael, R. E. Mizia, and D. B. Williams, 289-S (Nov)
Nuclear Fuel Applications — Part II: Nickel-based Alloys, Physical and Welding Metallurgy of Gd-enriched Austenitic Alloys for Spent — J. N. DuPont, C. V. Robino, J. R. Michael, R. E. Mizia, and D. B. Williams, XX (Dec)
Nugget Growth, Resistance Spot Welding of Aluminum Alloy to Steel with Transition Material — Part II: Finite Element Analyses of Nugget Growth — X. Sun and M. A. Khaleel, 197-S (July)
Penetrated GTA Weld, Numerical Simulation of Transient 3-D Surface Deformation of a Completely — C. S. Wu, P. C. Zhao, and Y. M. Zhang, 330-S (Dec)
Penetration Al-Mg-Si Welds, Liquation Cracking in Full — C. Huang and S. Kou, 111-S (Apr)
Penetration Al-Cu Welds, Liquation Cracking in Full — C. Huang and S. Kou, 50-S (Feb)
Plate, Analytical Approximate Solution for Double Ellipsodial Heat Source in Finite Thick— N. T. Nguyen, Y. -W. Mai, S. Simpson, and A. Ohta, 82-S (March)
Plate, Single-Pass Laser Beam Welding of Clad Steel — S. Missori, F. Murdolo, and A. Sili, 65-S (Feb)
Pool with Free Surface, Three- Dimensional Simulation of Transient GMA Weld — Z. Cao, Z. Yang, and X. L. Chen, 169-S (June)
Prediction in Resistance Spot Welding, Expulsion — J. Senkara, H. Zhang, and S. J. Hu, 123-S (Apr)
Procedure on ANSI/AWS A5.29-98 E81T1-Ni1 Flux Cored Arc Weld Metal Deposits, The Effect of Welding — H. G. Svoboda, N. M. Ramini De Rissone, L. A. De Veida, and E. S. Surian, 301-S (Nov)
Reliability of Weld Microstructure and Property Calculations — H. K. D. H. Bhadeshia, 237-S (Sept)
Resistance Welding, Penetrator Formation Mechanisms during High-Frequency Electric — J. -H. Choi, Y. S. Chang, C. -M. Kim, J. -S. Oh, and Y. -S. Kim, 27-S (Jan)
Shear Brazed Joints — Part 1, Flaw Tolerance in Lap — Y. Flom and L. Wang, 32-S (Jan)
Shielded Metal Arc Weld Metal Composition for Charpy Toughness, Optimization of — M. Muruganant, S. S. Babu, and S. A. David, 267-S (Oct)
Short-Circuit GMAW, Signature Analysis for Quality Monitoring in — Y. X. Chu, S. J. Hu, W. K. Hou, P. C. Wang, and S. P. Marin, XX (Dec)
Simulation of Tranient GMA Weld Pool with Free Surface, Three Dimensional — Z. Cao. Z. Yang, and X.L. Chen, 169-S (Jun)
Simulation of Transient 3-D Surface Deformation of a Completely Penetrated GTA Weld, Numerical — C. S. Wu, P. C. Zhao, and Y. M. Zhang, 330-S (Dec)
Solid-State Weld of Aluminum Alloys, 'Kissing Bond' Phenomena in — A. Oosterkamp, L. Djapic Oosterkamp, and A. Nordeide, 225-S (Aug)
Spot Welds, Effects of Fusion Zone Size on Failure Modes and Static Strenght of Aluminum Resistance — X. Sun, E. V. Stephens, R. W. Davies, M. A. Khaleel, and D. J. Spinella, 308-S (Nov)
Spot Welding of Aluminum Alloy to Steel with Transition Material — From Process to Performance — Part I: Experimental Study — X. Sun, E.V. Stephens, M.A. Khaleel, H. Sao, and M. Kimchi, 188-S (June)
Spot Welding, Expulsion Prediction in Resistance — J. Senakara, H. Zhang, and S. J. Hu, 123-S (Apr)
Spot Welding Lasers, Development and Evaluation of an In-Situ Beam Measurement for — P. W. Fuerschbach, J. T. Norris, R.C. Dykhuizen, and A. R. Mahoney, 154-S (May)
Spot Welding of Aluminum Alloy to Steel with Transition Material — Part II: Finite Element Analyses of Nugget Growth, Resistance — X. Sun and M. A. Khaleel, 197-S (July)
Stainless Steel Alloys, Physical and Welding Metallurgy of Gd-Enriched Austenitic Alloys for Spent Nuclear Fuel Applicatons — Part I — J. N. DuPont, C. V. Robino, J. R. Michael, R. E. Mizia, and D. B. Williams, 289-S (Nov)
Stainless Steels, Microstructure-Property Relationships in HAZ of Ne 13% Cr Martensitic — O. M. Akelesen, G. Rorvik, P .E. Kvaale, and C. Van Der Eijk, 160-S (May)
Stainless Steel Welds, The Influence of Microstructure on Fatigue Crack Propagation Behavior of — C. S. Kusko, J. N. Dupont, and A. R. Marder, 6-S (Jan)
Stainless Steel Welds, Influence of Stress Ratio on Fatigue Crack Propagation Behavior of — C. S. Kusko, J. N. Dupont, and A. R. Marder, 59-S (Feb)
Statistical Study, Activated Diffusion Brazing Technology for Manufacture of Titanium Honeycomb Structures — A — X. Huang and N. L Richards, 73-S (March)
Steel Using Time-Resolved X-ray Diffraction, Direct Observations of Ausentite, Bainite, and Martensite Formation During Arc Welding of 1045 — J. W. Elmer, T. A. Palmer, S. S. Babu, W. Zhang, and T. DebRoy, 244-S (Sept)
Stir Welding of Aluminum Alloy to Steel, Friction — K. Kimapong and T. Wantanabe, 277-S (Oct)
Stress Ratio on Fatigue Crack Propagation Behavior of Stainless Steel Welds, Influence of — C. S. Kusko, J. N. DuPont, and A. R. Marder, 59-S (Feb)
Susceptibility, Grain Boundary Character in Alloy 690 and Ductility-Dip Cracking — V. R. Dave, M. J. Cola, M. Kumar, A. J. Schwartz, and G. N. A. Hussen, 1-S (Jan)
Titanium Honeycomb Structures — A Statistical Study,

Activated Diffusion Brazing Technology for Manufacture of — X. Huang and N. L. Richards, 73-S (March)
T-joints, Plasticity-Based Distortion Analysis for Fillet Welded Thin-Plate T-joints — G.H. Jung and C. L. Tsai, 177-S (June)
T-Joints, Fundamental Studies on the Effect of Distortion Control Plans on Angular Distortion in Fillet Welded — G. H. Jung and C. L. Tsai, 213-S (July)
Tolerance in Lap Shear Brazed Joints — Part 1, Flaw — Y. Flom and L. Wang, 32-S (Jan)
Topology of Aluminum Brazed Joints, Prediction of the Fillet Mass and — D. P. Sekulic, F. Gao, H. Zhao, B. Zellmer, and Y. Y. Qian, 102-S (March)
Transition Material — From Process to Performance — Part I: Experimental Study, Resistance Spot Welding of Aluminum Alloy to Steel with — X. Sun, E. V. Stephens, M. A. Khaleel, H. Sao, and M. Kimchi, 188-S (June)
Ultrasonic Welding, Mechanical Modeling of — C. Doumanidis and Y. Gao, 140-S (Apr)
Weld-Bonded Joints, Cohesive-Zone Modeling of the Deformation and Fracture of — M. N. Cavalli, M. D. Thouless, and Q.D. Yang, 133-S (Apr)
Weld Metal Composition for Charpy Toughness, Optimization of Shielded Metal Arc — M. Murugananth, S. S. Babu, and S. A. David, 267-S (Oct)
Wire-Core Thermal Lance, Flame-Focusing Modification of a — H. Wang, P. Pranda, and V. Hlavacek, 283-S (Oct)
X-ray Diffraction, Direct Observations of Ausentite, Bainite, and Martensite Formation During Arc Welding of 1045 Steel Using Time-Resolved — J. W. Elmer, T. A. Palmer, S. S. Babu, W. Zhang, and T. DEBroy, 244-S (Sept)
Yttrium Hydrogen Trapping to Manage Hydrogen in HSLA Steel Welds — C. A. Lensing, Y. D. Park, I. S. Maroeff, and D. L. Olson, 254-S (Sept)

AUTHORS FOR RESEARCH SUPPLEMENTS

Akelesen, O. M., Rorvik, G., Kvaale, P .E., and Van Der Eijk, C. — Microstructure-Property Relationships in HAZ of New 13% Cr Martensitic Stainless Steels, 160-S (May)
Babu, S. S., Zhang, W., DebRoy, T. J., Elmer, W., and Palmer, T. A. — Direct Observations of Ausentite, Bainite, and Martensite Formation During Arc Welding of 1045 Steel Using Time-Resolved X-ray Diffraction, 244-S (Sept)
Babu, S. S., David, S. A. and Murugananth, M. — Optimization of Shielded Metal Arc Weld Metal Composition for Charpy Toughness, 267-S (Oct)
Bhadeshia, H. K. D. H. — Reliability of Weld Microstructure and Property Calculations, 237-S (Sept)
Blank, M. — How Do We Prevent Hot Work Fires?, 26 (Sept)
Cao, Z., Yang, Z., and Chen, X. L. — Three- Dimensional Simulation of Transient GMA Weld Pool with Free Surface, 169-S (June)
Cavalli, M. N., Thouless, M. D., and Yang, Q. D. — Cohesive-Zone Modeling of the Deformation and Fracture of Weld-Bonded Joints, 133-S (Apr)
Chen, X. L., Cao, Z., and Yang, Z. — Three-Dimensional Simulation of Transient GMA Weld Pool with Free Surface, 169-S (June)
Cola, M. J., Kumar, M., Schwartz, A. J., Hussen, G. N. A., and Dave, V. R. — Grain Boundary Character in Alloy 690 and Ductility-Dip Cracking Susceptibility, 1-S (Jan)
Collins, M. G., Ramirez, A. J., and Lippold, J. C. — An Investigation of Ductility-Dip Cracking in Nickel-Based Weld Metals — Part III, 39-S (Feb)
Chang, Y. S., Kim, C. -M., Oh, J. -S., Kim,Y. -S., and Choi, J. -H. — Penetrator Formation Mechanisms during High-Frequency Electric Resistance Welding, 27-S (Jan)
Choi, J. -H., Chang, Y. S., Kim, C. -M., Oh, J. -S., and Kim, Y. -S. — Penetrator Formation Mechanisms during High-Frequency Electric Resistance Welding, 27-S (Jan)
Chu, Y. X., Hu, S. J., Hou, W. K., Wang, P. C., and Marin, S. P. — Monitoring in Short-Circuit GMAW, Signature Analysis for Quality, XX (Dec)
Davé, V. R., Cola, M. J., Kumar, M., Schwartz, A. J., and Hussen, G. N. A. — Grain Boundary Character in Alloy 690 and Ductility-Dip Cracking Susceptibility, 1-S (Jan)
David, S. A., Murugananth, M., and Babu, S. S. — Optimization of Shielded Metal Arc Weld Metal Composition for Charpy Toughness, 267-S (Oct)
Davies, R. W., Khaleel, M. A., Spinella, D. J., Sun, X. and Stephens, E. V. — Effects of Fusion Zone Size on Failure Modes and Static Strength of Aluminum Resistance Spot Welds, 308-S (Nov)
De Veida, L. A., Surian, E. S., Svoboda, H. G., and Ramini De Rissone, N. M. — The Effect of Welding Procedure on ANSI/AWS A5.29-98 E81T1-Ni1 Flux Cored Arc Weld Metal Deposits, 301-S (Nov)
DebRoy, T., Elmer, J. W., Palmer, T. A., Babu, S. S., and Zhang, W. — Direct Observations of Ausentite, Bainite, and Martensite Formation During Arc Welding of 1045 Steel Using Time-Resolved X-ray Diffraction, 244-S (Sept)
Doumanidis, C. and Gao, Y. — Mechanical Modeling of Ultrasonic Welding, 140-S (Apr)
Du, S. G. and Fu, L. — Metallurgical Characterization of a Friction Welded Aluminum Alloy Subjected to an External Electrostatic Field, 232-S (Aug)
DuPont, J. N., Marder, A. R., and Kusko, C. S. — The Influence of Microstructure on Fatigue Crack Propagation Behavior of Stainless Steel Welds, 6-S (Jan)
DuPont, J. N., Marder, A. R., and Kusko, C. S. — Influence of Stress Ratio on Fatigue Crack Propagation Behavior of Stainless Steel Welds, 59-S (Feb)
DuPont, J. N., Robino, C. V., Michael, J. R., Mizia, R. E., and Williams, D. B. — Physical and Welding Metallurgy of Gd-Enriched Austenitic Alloys for Spent Nuclear Fuel

Applicatons — Part I: Stainless Steel Alloys, 289-S (Nov)
DuPont, J. N., Robino, C. V., Michael, J. R., Mizia, R. E., and Williams, D. B. — Physical and Welding Metallurgy of Gd-enriched Austenitic Alloys for Spent Nuclear Fuel Applications — Part II: — Nickel-based Alloys, 319-S(Dec)
Dykhuizen, R. C., Mahoney, A. R., Fuerschbach, P. W., and Norris, J. T — Development and Evaluation of an In-Situ Beam Measurement for Spot Welding Lasers, 154-S (May)
Edwards, G. R., Liu, S. and Marya, M.— An Investigation on the Effects of Gases in GTA Welding of a Wrought AZ80 Magnesium Alloy, 203-S (July)
Elmer, J. W., Palmer, T. A., Babu, S. S., Zhang, W., and Debroy, T. — Direct Observations of Ausentite, Bainite, and Martensite Formation During Arc Welding of 1045 Steel Using Time-Resolved X-ray Diffraction, 244-S (Sept)
Flom, Y. and Wang, L. — Flaw toletance in Lap Shear Brazed Joints — Part 1, 32-S (Jan)
Fuerschbach, P. W., Norris, J. T., Dykhuizen, R. C., and Mahoney, A. R. — Development and Evaluation of an In-Situ Beam Measurement for Spot Welding Lasers, 154-S (May)
Fu, L. and Du, S. G. — Metallurgical Characterization of a Friction Welded Aluminum Alloy Subjected to an External Electrostatic Field, 232-S (Aug)
Gao, Y. and Doumanidis, C. — Mechanical Modeling of Ultrasonic Welding, 140-S (Apr)
Gao, F., Zhao, H., Zellmer, B., Qian, Y. Y., and Sekulic, D. P. — Predicton of the Filler Mass and Topology of Aluminum Brazed Joints, 102-S (March)
Gruszczyk, A. — The Kinetics of Nitrogen Absorption by Arc-Melted Fe-C-Mn-Type Filler Metals, 94-S (March)
Hlavacek V., Wang, H. and Pranda, P. — Flame-Focusing Modification of a Wire-Core Thermal Lance, 283-S (Oct)
Hou, W. K., Wang, P. C., Marin, S. P., Chu, Y. X., and Hu, S. J. — Signature Analysis for Quality Monitoring in Short-Circuit GMAW, 336-S (Dec)
Huang, C. and Kou, S. — Liquation Cracking in Full-Penetration Al-Cu Welds, 50-S (Feb)
Huang, C. and Kou, S. — Liquation Cracking in Full-Penetration Al-Mg-Si Welds, 111-S (Apr)
Huang, X. and Richards, N. L. — Activated Diffusion Brazing Technology for Manufacture of Titanium Honeycomb Structures — A Statistical Study, 73-S (Mar)
Hussen, N. A., Dave, V. R., Cola, M. J., Kumar, M., and Schwartz, A. J. — Grain Boundary Character in Alloy 690 and Ductility-Dip Cracking Susceptibility, 1-S (Jan)
Hu, S. J., Senkara, J., and Zhang, H. — Expulsion Prediction in Resistance Spot Welding, 123-S (Apr)
Hu, S. J., Hou, W. K., Wang, P. C., Marin, S. P., and Chu, Y. X. — Monitoring in Short-Circuit GMAW, Signature Analysis for Quality, XX (Dec)
Jung, G. H. and Tsai, C. L. — Plasticity-Based Distortion Analysis for Fillet Welded Thin-Plate T-joints, 177-S (June)
Jung, G. H. and Tsai, C. L. — Fundamental Studies on the Effect of Distortion Control Plans on Angular Distortion in Fillet Welded T-Joints, 213-S (July)
Khaleel, M.A., Shao, H., Kimchi, M., Sun, X., and Stephens, V. E. — Resistance Spot Welding of Aluminum Alloy to Steel with Transition Material - From Process to Performance - Part 1: Experimental Study, 188-S (June)
Khaleel, M. A. and Sun, X. — Resistance Spot Welding of Aluminum Alloy to Steel with Transition Material — Part II: Finite Element Analyses of Nugget Growth, 197-S (July)
Khaleel, M. A., Spinella, D. J., Sun, X., Stephens, E. V., and Davies, R. W.— Effects of Fusion Zone Size on Failure Modes and Static Strenght of Aluminum Resistance Spot Welds, 308-S (Nov)
Kim, C. -M., Oh, J. -S., Kim, Y. -S., Choi, J. -H, and Chang, Y. S. — Penetrator Formation Mechanisms during High Frequency Electric Resistance Welding, 27-S (Jan)
Kim, Y. -S., Choi, J. -H., Chang, Y. S., Kim, C. -M., and Oh, J.-S. — Penetrator Formation Mechanisms during High Frequency Electric Resistance Welding, 27-S (Jan)
Kimapong, K. and Watanabe, T. — Friction Stir Welding of Aluminum Alloy to Steel, 277-S (Oct)
Kimchi, M., Sun, X., Stephens, E. V., Khaleel, M. A., Shao, H., and Kimchi, M. — Resistance Spot Welding of Aluminum Alloy to Steel with Transition Material - From Process to Performance - Part 1: Experimental Study, 188-S (June)
Kou, S. and Huang, C. — Liquation Cracking in Full-Penetration Al-Cu Welds, 50-S (Feb)
Kou, S. and Huang, C. — Liquation Cracking in Full-Penetration Al-Mg-Si Welds, 111-S (Apr)
Kumar, M., Schwartz, A. J., Hussen, G. N. A., Dave, V. R., and Cola, M. J. — Grain Boundary Character in Alloy 690 and Ductility-Dip Cracking Susceptibility, 1-S (Jan)
Kusko, C. S., DuPont, J. N., and Marder, A. R. — The Influence of Microstructure on Fatigue Crack Propagation Behavior of Stainless Steel Welds, 6-S (Jan)
Kusko, C. S., DuPont, J. N., and Marder, A. R. — Influence of Stress Ratio on Fatigue Crack Propagation Behavior of Stainless Steel Welds, 59-S (Feb)
Kutsuna, M., and Rathod, M. J. — Joining of Aluminum Alloy 5052 and Low-Carbon Steel by Laser Roll Welding, 16-S (Jan)
Lippold, J. C., Collins, M. G., and Ramirez, A. J. — An Investigation of Ductility-Dip Cracking in Nickel-Based Weld Metals — Part III, 39-S (Feb)
Liu, S., Marya, M., and Edwards, G. R. — An Investigation on the Effects of Gases in GTA Welding of a Wrought AZ80 Magnesium Alloy, 203-S (July)
Mai, Y. -W., Simpson, S., Ohta, A., and Nyugen, N. T. — Analytical Approxiamte Solution for Double Ellipsodial Heat Source in Finite Thick Plate, 82-S (March)
Mahoney, A. R., Fuerschbach, P. W., Norris, J. T. and Dykhuizen, R. C. — Development and Evaluation of an In-Situ Beam Measurement for Spot Welding Lasers, 154-S (May)
Marder, A. R., Kusko, C. S., and DuPont, J. N. — The Influence of Microstructure on Fatigue Crack Propagation Behavior of Stainless Steel Welds, 6-S (Jan)
Marder, A. R., Kusko, C. S., and DuPont, J. N. — Influence of Stress Ratio on Fatigue Crack Propagation Behavior of Stainless Steel Welds, 59-S (Feb)
Marin, S. P., Chu, Y. X., Hu, S. J., Hou, W. K., and Wang, P. C. — Monitoring in Short-Circuit GMAW, Signature Analysis for Quality, XX (Dec)
Marya, M., Edwards, G. R. and Liu, S. — An Investigation on the Effects of Gases in GTA Welding of a Wrought AZ80 Magnesium Alloy, 203-S (July)
Michael, J. R., Mizia, R. E., Williams, D. B., DuPont, J. N., and Robino, C. V. — Physical and Welding Metallurgy of Gd-Enriched Austenitic Alloys for Spent Nuclear Fuel Applicatons — Part I: Stainless Steel Alloys, 289-S (Nov)
Michael, J. R., Williams, D. B., DuPont, J. N., Robino, C. V., and Mizia, R. E.— Physical and Welding Metallurgy of Gd-enriched Austenitic Alloys for Spent Nuclear Fuel Applications — Part II: — Nickel-based Alloys, 319-S (Dec)

Missori, S., Murdolo, F., and Sili, A. — Single Pass Laser Beam Welding of Clad Steel Plate, 65-S (Feb)
Mizia, R. E., Williams, D. B., DuPont, J. N., Robino, C. V., and Michael, J. R. — Physical and Welding Metallurgy of Gd-Enriched Austenitic Alloys for Spent Nuclear Fuel Applicatons — Part I: Stainless Steel Alloys, 289-S (Nov)
Mizia, R. E., Michael, J. R., Williams, D. B., DuPont, J. N., and Robino, C. V. — Physical and Welding Metallurgy of Gd-enriched Austenitic Alloys for Spent Nuclear Fuel Applications — Part II: — Nickel-based Alloys, XX (Dec)
Murdolo, F., Sili, A., and Missori, S. — Single-Pass Laser Beam Welding of Clad Steel Plate, 65-S (Feb)
Murugananth, M., Babu, S. S., and David, S. A. — Optimization of Shielded Metal Arc Weld Metal Composition for Charpy Toughness, 267-S (Oct)
Nordeide, A., Oosterkamp, A., and Oosterkamp, L. Djapic — 'Kissing Bond' Phenomena in Solid-State Weld of Aluminum Alloys, 225-S (Aug)
Norris, J. T., Dykhuizen, R. C., Mahoney, A. R., and Fuerschbach, P. W. — Development and Evaluation of an In-Situ Beam Measurement for Spot Welding Lasers, 154-S (May)
Nyugen, N. T., Mai, Y. -W., Simpson, S., and Ohta, A. — Analytical Approxiamte Solution for Double Ellipsodial Heat Source in Finite Thick Plate, 82-S (March)
Oh, J. -S., Kim, Y. -S., Choi, J. -H., Chang, Y. S., and Kim, C. -M. — Penetrator Formation Mechanisms during High-Frequency Electric Resistance Welding, 27-S (Jan)
Ohta, A., Nyugen, N. T., Mai, Y. -W., and Simpson, S. — Analytical Approxiamte Solution for Double Ellipsodial Heat Source in Finite Thick Plate, 82-S (March)
Oosterkamp, A., Oosterkamp, L. Djapic, and Nordeide, A. — 'Kissing Bond' Phenomena in Solid-State Weld of Aluminum Alloys, 225-S (Aug)
Oosterkamp, L. Djapic, Oosterkamp, A., and Nordeide, A. — 'Kissing Bond' Phenomena in Solid-State Weld of Aluminum Alloys,225-S (Aug)
Pranda, P., Hlavacek, V., and Wang, H. — Flame-Focusing Modification of a Wire-Core Thermal Lance, 283-S (Oct)
Palmer, T. A., Babu, S. S., Zhang, W., DebRoy, T., and Elmer, J. W. — Direct Observations of Ausentite, Bainite, and Martensite Formation During Arc Welding of 1045 Steel Using Time-Resolved X-ray Diffraction, 244-S (Sept)
Qian, Y. Y., Sekulic, D. P., Gao, F., Zhao, H., and Zellmer, B. — Prediction of the Fillet Mass and Topology of Aluminum Brazed Joints, 102-S (March)
Ramini De Rissone, N. M., De Veida, L. A., Surian, E. S., and Svoboda, H. G. — The Effect of Welding Procedure on ANSI/AWS A5.29-98 E81T1-Ni1 Flux Cored Arc Weld Metal Deposits, 301-S (Nov)
Ramirez, A. J., Lippold, J. C., and Collins, M. G. — An Investigation of Ductility-Dip Cracking in Nickel-Based Weld Metals — Part III, 39-S (Feb)
Rathod, M. J. and Kutsuna, M. — Joining of Aluminum Alloy 5052 and Low-Carbon Steel by Laser Roll Welding, 16-S (Jan)
Rayes, M. El, Walz, C., and Sepold, G. — The Influence of Various Hybrid Welding Parameters on Bead Geomety, 147-S (May)
Richards, N. L. and Huang, X. — Activated Diffusion Brazing Technology for Manufacture of Titanium Honeycomb Structures — A Statistical Study, 73-S (March)
Robino, C. V., Michael, J. R., Mizia, R. E., Williams, D. B., and DuPont, J. N. — Physical and Welding Metallurgy of Gd-Enriched Austenitic Alloys for Spent Nuclear Fuel Applicatons — Part I Stainless Steel Alloys, 289-S (Nov)
Robino, C. V., Mizia, R. E., Michael, J. R., Williams, D. B., and DuPont, J. N. — Physical and Welding Metallurgy of Gd-enriched Austenitic Alloys for Spent Nuclear Fuel Applications — Part II: — Nickel-based Alloys, 319-S (Dec)
Rorvik, G., Kvaale, P. E., Van Der Eijk, C., and Akelesen, O M. — Microstructure-Property Relationships in HAZ of New 13% Cr Martensitic Stainless Steels, 160-S (May)
Shao, H. E., Kimchi, M., Sun, X., Stephens, V., and Khaleel, M. A. — Resistance Spot Welding of Aluminum Alloy to Steel with Transition Material — From Process to Performance — Part I: Experimental Study, 188-S (June)
Schwartz, A. J., Hussen, G. N. A., Davé, V. R., Cola, M. J., and Kumar, M. — Grain Boundary Character in Alloy 690 and Ductility-Dip Cracking Susceptibility, 1-S (Jan)
Sekulic, D. P., Gao, F., Zhao, H., Zellmer, B., and Qian, Y. Y. — Prediction of the Fillet Mass and Topology of Aluminum Brazed Joints, 102-S (March)
Senkara, J., Zhang, H., and Hu, S. J. — Expulsion Prediction in Resistance Spot Welding, 123-S (Apr)
Sepold, G., El Rayes, M., and Walz, C. — The Influence of Various Hybrid Welding Parameters on Bead Geometry, 147-S (May)
Sili, A., Missori, S., and Murdolo, F. — Single-Pass Laser Beam Welding of Clad Steel Plate, 65-S (Feb)
Simpson, S., Ohta, A., Nyugen, N. T., and Mai, Y. -W. — Analytical Approxiamte Solution for Double Ellipsodial Heat Source in Finite Thick Plate, 82-S (March)
Spinella, D. J., Sun, X., Stephens, E. V., Davies, R.W., and Khaleel, M. A. — Effects of Fusion Zone Size on Failure Modes and Static Strenght of Aluminum Resistance Spot Welds, 308-S (Nov)
Stephens, E. V., Khaleel, M.A., Shao, H., Kimchi, M., and Sun, X. — Resistance Spot Welding of Aluminum Alloy to Steel with Transition Material - From Process to Performance - Part 1: Experimental Study, 188-S (June)
Stephens, E. V., Davies, R. W., Khaleel, M. A., Spinella, D. J., and Sun, X. — Effects of Fusion Zone Size on Failure Modes and Static Strength of Aluminum Resistance Spot Welds, 308-S (Nov)
Sun, X., Stephens, E. V., Khaleel, M. A., Shao, H., and Kimchi, M. — Resistance Spot Welding of Aluminum Alloy to Steel with Transition Material - From Process to Performance-Part I: Experimental Study, 188-S (June)
Sun, X. and Khaleel, M. A. — Resistance Spot Welding of Aluminum Alloy to Steel with Transition Material — Part II: Finite Element Analyses of Nugget Growth, 197-S, (July)
Sun, X., Stephens, E. V., Davies, R. W., Khaleel, M. A., and Spinella, D. J. — Effects of Fusion Zone Size on Failure Modes and Static Strength of Aluminum Resistance Spot Welds, 308-S (Nov)
Surian, E. S., Svoboda, H. G., Ramini De Rissone, N. M., and De Veida, L. A. — The Effect of Welding Procedure on ANSI/AWS A5.29-98 E81T1-Ni1 Flux Cored Arc Weld Metal Deposits, 301-S (Nov)
Svoboda, H. G., Ramini De Rissone, N. M., De Veida, L. A., and Surian, E. S. — The Effect of Welding Procedure on ANSI/AWS A5.29-98 E81T1-Ni1 Flux Cored Arc Weld Metal Deposits, 301-S (Nov)
Thouless, M. D., Yang, Q., and Cavalli, M. N. — Cohesive-Zone Modeling of the Deformation and Fracture of Weld-Bonded Joints, 133-S (Apr)
Tsai, C. L. and Jung, G. H. — Plasticity-Based Distortion

Analysis for Fillet Welded Thin-Plate T-joints, 177-S, (June)
Tsai, C. L. and Jung, G. H. — Fundamental Studies on the Effect of Distortion Control Plans on Angular Distortion in Fillet Welded T-Joints, 213-S (July)
Van Der Eijk, C., Akelesen, O. M., Rorvik, G., and Kvaale, P. E. — Microstructure-Property Relationships in HAZ of New 13% Cr Martensitic Stainless Steels, 160-S (May)
Walz, C., Sepold, G., and El Rayes, M. — The Influence of Various Hybrid Welding Parameters on Bead Geometry, 147-S (May)
Wang, L. and Flom, Y.— Flaw Toletance in Lap Shear Brazed Joints — Part 1, 32-S (Jan)
Wang, H., Pranda, P., and Hlavacek, V. — Flame-Focusing Modification of a Wire-Core Thermal Lance, 283-S (Oct)
Wang, P. C., Marin, S. P., Chu, Y. X., Hu, S. J., and Hou,W. K. — Monitoring in Short-Circuit GMAW, Signature Analysis for Quality, XX (Dec)
Watanabe, T. and Kimapong, K. — Friction Stir Welding of Aluminum Alloy to Steel, 277-S (Oct)
Williams, D. B., DuPont, J. N., Robino, C. V., Michael, J. R., and Mizia, R. E. — Physical and Welding Metallurgy of Gd-Enriched Austenitic Alloys for Spent Nuclear Fuel Applications — Part I: Stainless Steel Alloys, 289-S (Nov)
Williams, D. B., DuPont, J. N., Robino, C. V., Mizia, R. E., and Michael, J. R. — Physical and Welding Metallurgy of Gd-enriched Austenitic Alloys for Spent Nuclear Fuel Applications — Part II: — Nickel-based Alloys, 319-S (Dec)
Wu, C. S., Zhao, P. C., and Zhang, Y. M. — Numerical Simulation of Transient 3-D Surface Deformation of a Completely Penetrated GTA Weld, 330-S (Dec)
Yang, Q. D., Cavalli, M. N., and Thouless, M. D. — Cohesive-Zone Modeling of the Deformation and Fracture of Weld-Bonded Joints, 133-S (Apr)
Yang, Z., Chen, X. L., and Cao, Z. — Three- Dimensional Simulation of Transient GMA Weld Pool with Free Surface, 169-S (Jun)
Zellmer, B., Qian, Y. Y., Sekulic, D. P., Gao, F., and Zhao, H. — Prediction of the Fillet Mass and Topology of Aluminum Brazed Joints, 102-S (March)
Zhang, H., Senkara, J., and Hu, S. J. — Expulsion Prediction in Resistance Spot Welding, 123-S (Apr)
Zhang, W., DebRoy, T., Elmer, J. W., Palmer, T. A., and Babu, S. S. — Direct Observations of Ausentite, Bainite, and Martensite Formation During Arc Welding of 1045 Steel Using Time-Resolved X-ray Diffraction, 244-S (Sept)
Zhang, Y. M., Wu, C. S., and Zhao, P. C. — Numerical Simulation of Transient 3-D Surface Deformation of a Completely Penetrated GTA Weld, 330-S (Dec)
Zhao, H., Zellmer, B., Qian, Y. Y., Sekulic, D. P., and Gao, F. — Prediction of the Fillet Mass and Topology of Aluminum Brazed Joints, 102-S (March)
Zhao, P. C., Zhang, Y. M., and Wu, C. S. — Numerical Simulation of Transient 3-D Surface Deformation of a Completely Penetrated GTA Weld, 330-S (Dec)